

## Tesoro Stabilization Construction Schedule

**Maxwell, Daniel L.** to: Briefer, Laura, 'Paul Fuglevand', Acerson, Shawn E

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From: "Maxwell, Daniel L." <Dan.L.Maxwell@tsocorp.com>

To:

Cc: 'Rob Webb' <rwebb@dofnw.com>, 'Kevin Murray' <kmurray@chapman.com>, 'Nicole Squires' <squires@chapman.com>, "'Barron, Eve'" <EveBarron@chevron.com>, "'Cooper, Dave'" <dcooper@dofnw.com>, 'Galen Williams' <gwilliams@earthfax.com>, 'Scott Murphy' <smurphy@earthfax.com>, "Harriss, Heather" <Heather.K.Harriss@tsocorp.com>, Hernandez.Kathryn@epamail.epa.gov, 'Elizabeth Palmer' <epalmer@utah.gov>, "Buell, Matthew W." <Matthew.W.Buell@tsocorp.com>, "Henderson, Greg" <Greg.D.Henderson@tsocorp.com>

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All,

Tesoro pulled all associated contractors together 8/23 to construct a timeline as close as we can to complete the bank and pipeline stabilization.

Much of this hinges on the Working Groups requirement for Tesoro to obtain separate geotech data in our crossing areas plus 25' either side of the crossings. Our geotech contractors are working as of today and have committed to have the report in Tesoro's hands in one week, 8/31. Based on actual delivery of the geotech report, the engineering firm has committed to issue the PE stamped prints for construction no later than one day after the report is issued, 9/1. At that point the helical pier contractor and construction contractor have committed to begin their work. The helical piers will be done two days after they start, then the civil and structural work can begin.

TIMELINE:

8/23 Tesoro meets with all contractors to develop work plan

8/24 Engineering firm releases contract to Geotech firm to start assessment of area of concern

Geotech firm starts assessment

General contractor locating construction materials for structural work

8/31 Geotech firm issues report and recommendations

9/1 Engineering group issues PE stamped drawings for construction

9/6 Helical pier installation begins

9/8 Helical pier complete, inspection by qualified helical pier inspectors

9/8-12 Start cement form up work for structural stabilization

9/12-16 Cement work finished

9/16-20 Stand structural steel (4 days post cement pour)

9/22-27 String cable and support pipes (7 days post cement pour)

Unknown factors or delay possibilities;

-Permission and access given in writing from SLC to Tesoro to access canal bank on South crossing, once access and construction permit granted dirt work can commence, duration 2.5 days or less.

-Permission and access given in writing from BP to Tesoro to access canal bank on North crossing, once access and construction permit granted dirt work can commence, duration 2.5 days or less.

-Availability of materials for structural stabilization.

-Location of SLC 48" force main relative to the West helical piers as designed on the south crossing, could change the design, As could the location of the service road on the West bank of the North crossing.

Once all access to the property for stabilization has been received the bank stabilization can be largely accomplished in one week or less and we will start as soon as we have access and the

contractor can then get it on his schedule.

A work area for the installation of the helical piers at each crossing will be left until piers are installed, then the finish work can begin. In addition to the work area for the pier install, we will only work to the water line until the canal is dewatered, upon which time we will finish that portion of the stabilization.

Thank you,

**Dan Maxwell**

Operations Team Lead

Logistics - Pipeline, Terminals - Utah

Ofc - 801.521.4961

**Please note my NEW Cell No.# - 801.678.6245**

Fax - 801.521.4963

474 W. 900 N.

Salt Lake City, UT. 84103